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WHAT IS CLAIMED IS:

1. An image display device comprising:

an adjusting circuit that adjusts inputted image signals based on an adjusting value to be sequentially up-to-dated;

a non-linear converting circuit at a stage after said adjusting circuit, said non-linear converting circuit that converts inputted signals into signals in a non-linear manner;

a display brightness characteristics value detecting circuit at a stage after said non-linear converting circuit, said display brightness characteristics value detecting circuit that sequentially detects a display brightness characteristics value indicating lightness of a display image from inputted signals;

a brightness refraining value outputting circuit that sequentially outputs a brightness refraining value that refrains lightness of said display image based on said display brightness characteristics value; and

an adjusting value outputting circuit that applies a conversion having characteristics being inverse with relative to a converting characteristics of said non-linear converting circuit or conversion having characteristics approximate to the inverse characteristics, to said brightness refraining value to

output said adjusting value.

2. An image display device comprising:

a multiplying circuit that outputs output signals obtained by multiplying inputted signals and a variable coefficient;

a non-linear converting circuit at a stage after said multiplying circuit, said non-linear converting circuit that applies a non-linear conversion of power of γ ($\gamma > 1$) or a conversion being approximate to the non-linear conversion of power of γ ($\gamma > 1$) to inputted signals and outputs the converted signals; and

a display brightness characteristics value detecting circuit at a stage after said non-linear converting circuit, said display brightness characteristics value detecting circuit that detects a display brightness characteristics value indicating lightness of display image from inputted signal;

wherein a first value which is the γ -th power root to a calculated value G that is sequentially up-to-dated or a second value approximate to the first value is used as said variable coefficient, and

regarding as said calculated value G, if said display brightness characteristics value is defined by B, a calculated value before updating is defined by G0, and a reference value that is compared with said display brightness characteristics value is defined by

B0, then a relation of $G = G_0 \times B_0 / B$ is satisfied.

3. The image display device according to Claim 2, wherein if said value of $G_0 \times B_0 / B$ is more than 1, then 1 is set as said calculated value G.

4. An image display device comprising:

a multiplying circuit that outputs output signals obtained by multiplying inputted signals and a variable coefficient;

a non-linear converting circuit at a stage after said multiplying circuit, said non-linear converting circuit that applies a non-linear conversion of power of $\gamma (\gamma > 1)$ or a conversion being approximate to the non-linear conversion of power of $\gamma (\gamma > 1)$ to inputted signals and outputs the converted signals; and

a display brightness characteristics value detecting circuit at a stage after said non-linear converting circuit, said display brightness characteristics value detecting circuit that detects a display brightness characteristics value indicating lightness of display image from inputted signal,

wherein said variable coefficient is a first value which is the γ -th power root to a calculated value G that is sequentially up-to-dated or a second value being approximate to the first value, or a value obtained by modifying a high frequency component of a

first value which is the r -th power root of the calculated value G that is sequentially up-to-dated or the second value being approximate to the first value, and

wherein said calculated value G is any of (i) said display brightness characteristics value, or (ii) a value of $G_0 \times B_0 / B$ if a value obtained by modifying a high frequency component of a plurality of said display brightness characteristics value that is sequentially detected from the input signals is defined by B and a calculated value before updating is defined by G_0 and a reference value that is compared with said display brightness characteristics value is defined by B_0 or (iii) a value obtained by modifying a high frequency component of $G_0 \times B_0 / B$ to be sequentially obtained or (iv) a value of $K_0^r \times B_0 / B$ if a variable coefficient before updating is defined by K_0 .

5. The image display device according to Claim 4, wherein 1 is set as said calculated value G if a value used as said calculated value G , among (i) said value of $G_0 \times B_0 / B$, (ii) said value obtained by modifying a high frequency component of $G_0 \times B_0 / B$ to be sequentially obtained and (iii) said value of $K_0^r \times B_0 / B$, is more than 1 if the variable coefficient before updating is defined by K_0 .

6. An image display device comprising:

an adjusting circuit that adjusts inputted image signals based on an adjusting value to be sequentially up-to-dated;

a non-linear converting circuit at a stage after said adjusting circuit, said non-linear converting circuit that converts inputted signals into signals in a non-linear manner;

a display brightness characteristics value detecting circuit at a stage after said non-linear converting circuit, said display brightness characteristics value detecting circuit that sequentially detects a display brightness characteristics value indicating lightness of display image from inputted signals;

a brightness refraining value outputting circuit that sequentially outputs a brightness refraining value that refrains said lightness of said display image based on the display brightness characteristic value and a brightness control value related to an image quality adjustment; and

an adjusting value outputting circuit that applies a first conversion having characteristic being inversed with relative to conversion characteristics of said non-linear converting circuit or a conversion having characteristics being approximate to the first conversion to said brightness refraining value to

output said adjusting value.

7. An image display device comprising:

an adjusting circuit that adjusts inputted image signals based on an adjusting value to be sequentially up-to-dated;

a non-linear converting circuit at a stage after said adjusting circuit, said non-linear converting circuit that converts inputted signals into signals in a non-linear manner;

a display brightness characteristics value detecting circuit at a stage after said non-linear converting circuit, said display brightness characteristics value detecting circuit that sequentially detects a display brightness characteristics value indicating lightness of display image from inputted signals;

a brightness refraining value outputting circuit that sequentially outputs a brightness refraining value that refrains said lightness of said display image based on the display brightness characteristic value; and

an adjusting value outputting circuit that outputs said adjusting value based on (i) a value obtained by applying a first conversion having characteristic being inversed with relative to conversion characteristics of said non-linear converting circuit or a conversion

having characteristic being approximate to the inverse characteristics to said brightness refraining value, and (ii) a brightness control value relating to an image quality adjustment.

8. The image display device according to Claim 1, wherein said display brightness characteristics value is a total sum or an average value of display signals for a predetermined term.

9. The image display device according to Claim 1, wherein said display brightness characteristics value is the number of signals over a predetermined value of display signals for a predetermined term.

10. The image display device according to Claim 1, wherein said display brightness characteristics value is a total sum or an average value of kinds of colors of display signals for a predetermined term.

11. The image display device according to Claim 1, wherein said display brightness characteristics value is a total sum or an average value of brightness components of display signals for a predetermined term.

12. The image display device according to Claim 1, wherein said display brightness characteristics value

is a static value of display signals in a specified area in a screen.

13. The image display device according to Claim 1, wherein conversion characteristics of said non-linear converting circuit is a function having characteristics so as to be approximate to characteristics of equation of $g(x)=x^r$ (x : inputted signal, $g(x)$: output signal) over all the inputted area and a function having characteristics so that an output becomes larger than a value obtained by the equation of $g(x)=x^r$ in a lower gradation section.

14. The image display device according to Claim 13, wherein conversion characteristics of said non-linear converting circuit is represented by equations of:

$$g(x)=a * x \quad (x \leq x_0),$$

$$g(x)=(1-z) x^r + z \quad (x > x_0)$$

(x : inputted signal, $g(x)$: output signal, a , z , r and x_0 : constant values).

15. The image display device according to Claim 13, wherein said adjusting value is the r -th power root to said brightness refraining value.

16. The image display device according to Claim 1 further comprising a character information combining

circuit for overlapping character information over said image signal, wherein said adjusting circuit, said non-linear converting circuit, said character information combining circuit and said display brightness characteristics detecting circuit are arranged orderly.

17. The image display device according to Claim 1, wherein pixels of said image display device are constituted by electron emission elements arranged in a matrix manner.

18. The image display device according to Claim 17, wherein said electron emission elements are surface conduction type electron emission elements.

19. The image display device according to Claim 18, wherein said display brightness characteristics value is an emitted current value to be emitted from said electron emission elements.